

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/621,758  
Source: O/PK  
Date Processed by STIC: 7/30/2003

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PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

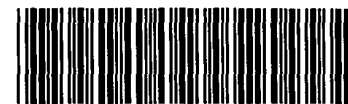
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebs/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

## RAW SEQUENCE LISTING

DATE: 07/30/2003

PATENT APPLICATION: US/10/621,758

TIME: 08:07:57

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\07302003\J621758.raw

3 <110> APPLICANT: Altmann, Scott W  
 4 Wang, Luquan  
 5 Graziano, Michael  
 6 Murgolo, Nick  
 8 <120> TITLE OF INVENTION: NPC1L1 (NPC3) AND METHODS OF USE THEREOF  
 10 <130> FILE REFERENCE: JB01603-K-US  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/621,758  
 C--> 12 <141> CURRENT FILING DATE: 2003-07-17  
 12 <160> NUMBER OF SEQ ID NOS: 50  
 14 <170> SOFTWARE: PatentIn version 3.1

## ERRORED SEQUENCES

1783 <210> SEQ ID NO: 10  
 1784 <211> LENGTH: 3993  
 1785 <212> TYPE: DNA  
 1786 <213> ORGANISM: Rattus sp.  
 1788 <400> SEQUENCE: 10

E--> 1789	atggcngcng	cntggytngg	ntggytntyt	tgggcnhtny	tnytnwsngc	ngcncargcn	60
E--> 1790	garytntaya	cnccnaarca	ygargcnggn	gtntgyacnt	tytaygarga	rtgyggnaar	120
E--> 1791	aayccngary	tnwsnggngg	nytnacnwsn	ytnwsnaayg	tnwsntgyyt	nwsnaayacn	180
E--> 1792	ccngcnmgnc	aygtnacngg	ngarcayytn	gcnytntnyc	armgnathtg	yccnmgnytn	240
E--> 1793	tayaayggnc	cnaayacnac	nttygcntgy	tgywsnacna	arcarytnyt	nwsnytngar	300
E--> 1794	wsnwsnatgw	snathacnaa	rgcnytntyt	acnmgtgyc	cngcntgyws	ngayaaytty	360
E--> 1795	gtnwsnytn	aytgycayaa	yacntgywsn	ccngaycarw	snytnnttyat	haaygtnacn	420
E--> 1796	mgngtngtng	armngggngc	ngnggarccn	ccngcngtng	tngcntayga	rgcnttytay	480
E--> 1797	carmgnwsnt	tygcngaraa	rgcntaygar	wsntgywsnc	argtnmgnt	hccngcngcn	540
E--> 1798	gcnwsnytn	cngtnggnws	natgtgygg	gtntayggw	sngcnytntg	yaaygcncar	600
E--> 1799	mgntggytna	ayttycargg	ngayaacngn	aayggnytn	cnccnytnga	yathacntty	660
E--> 1800	cayytntytng	arccnggnca	rgcnytncn	gayggnahtc	arccnytnaa	yggnaarath	720
E--> 1801	gcnccttgya	aygarwsnca	rgnggaygay	wsngcngtnt	gywsntgyca	rgaytgygcn	780
E--> 1802	gcnwsntgyc	cngtnathcc	ncncncngar	gcnytnmgnc	cnwsnttyta	yatgggnmgn	840
E--> 1803	atgcengngt	ggytngcny	nathathath	ctyacngcng	tnnttygtnt	nytnwsngcn	900
E--> 1804	gtnyntngtn	gnytnmgngt	ngtnwsnaay	mgnaayaara	ayaargcnga	rggncncar	960
E--> 1805	gargcnccna	arytnccnca	yaarcayaar	ytnwsnccnc	ayacnathyt	nggnmgntty	1020
E--> 1806	ttycaraayt	ggggnacnmg	ngtngcnwsn	tgccnnytna	cngtntnngc	nytnwsntty	1080
E--> 1807	athgtngtna	thgcnytngc	ngcnggnytn	acnttyathg	arytnacnac	ngayccngtn	1140
E--> 1808	garytntggw	sngcncncaa	rwsncargcn	mgnaargara	arwsnttyca	ygaygarcay	1200
E--> 1809	tytggnccnt	tyttymgnac	naaycarath	tytgtnacng	cnmgnaaymg	nwsnwsntay	1260
E--> 1810	aartaygayw	snytnytnt	nggnwsnaar	aayttywsng	gnathytnws	nytngaytty	1320
E--> 1811	ytntngary	tnytngaryt	ncargarmgn	ytnmgncayy	tncargtntg	gwsnccngar	1380
E--> 1812	gcngarmgna	ayathwsnyt	ncargayath	tgytaygcnc	cnytnaaycc	ntayaayacn	1440

*pp 1-6*  
 Does Not Comply  
 Corrected Diskette Needed

*sample of error  
 appearing  
 throughout  
 sequence  
 to  
 (see  
 pp 5-6  
 for error  
 explanation)*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/621,758

DATE: 07/30/2003

TIME: 08:07:57

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\07302003\J621758.raw

E--> 1813 wsnytnwsng aytgytgygt naaywsnytn ytncartayt tycaraayaa ymgnacnytn 1500  
 E--> 1814 ytnatgytna cngcnaayca racnytnaay ggncaracnw snytngtnga ytggaaargay 1560  
 E--> 1815 cayttyytnt aytgygcnaa ygcncnytn acnttyaarg ayggnaacnws nytngcnytn 1620  
 E--> 1816 wsntgyatgg cngaytaygg ngcncngtn ttyccttyy tngcngtngg nggntaycar 1680  
 E--> 1817 ggnacngayt aywsngargc ngargcnytn athathacnt tywsnytnaa yaaytayccn 1740  
 E--> 1818 gcngaygayc cnmgatggc ncargcnaar ytntgggarg argccttyyt naargaratg 1800  
 E--> 1819 garwsnttyc armgnaayac nwsngayaar tycargtng cnttywsngc ngarmgnwsn 1860  
 E--> 1820 ytnngargayg arathaaymg nacnacnath cargayytnc cngtnttygc ngtnwsntay 1920  
 E--> 1821 athathgtnt tyytntayat hwsnytnngcn ytnngnwsnt aywsnmngntg ywsnmngntn 1980  
 E--> 1822 gcngtngarw snaargcnac nytnggnytn ggnggngtna thgtngtnyt nggngcngtn 2040  
 E--> 1823 ytngcngcna tgggnttyta ywsntayytn ggngtncnw snwsnytngt nathathcar 2100  
 E--> 1824 gtngtncnt tyytngtnyt ngcngtnggn gcngayaaya thttyathtt ygtnytnngar 2160  
 E--> 1825 taycarmgny tncncmgnt gccngngar carmgngarg cncayathgg nmgnacnytn 2220  
 E--> 1826 ggnwsngtng cncncwsnat gytnytnngy wsnytnwsng argcnathgt ytttytyytn 2280  
 E--> 1827 ggngcnytna cncncatgcc ngcngtnmgn acnttygcn tncnwsngg nytngcnath 2340  
 E--> 1828 athytnngayt tyytntnca ratgacngcn ttygtngcny tnytnwsnyt ngaywsnaar 2400  
 E--> 1829 mgncargarg cnwsnmgncc ngaygtnytn tgytgytyw snacnmgnaa rytncncncn 2460  
 E--> 1830 ccnaargara argarggnytn nytntnmgn tyytymgna arathtaygc nccnttyytn 2520  
 E--> 1831 ytncaymgnt tyathmgnc ngtngtnatg ytnytnntty tncnytnntt yggngcnaay 2580  
 E--> 1832 ytnatyytna tgtgyaayat haaygtnggn ytnngaycarg arytnngcny nccnaargay 2640  
 E--> 1833 wsntayytna thgaytaytt yytnnttyytn aaymgntay tngargtngg nccncngtn 2700  
 E--> 1834 tayttygtna cnacnwsngg nttyaaytyt wsnwsngarg cnggnatgaa ygcnaentgy 2760  
 E--> 1835 wsnwsngcng gntgyaarws nttywsnytn acncaraara thcartaygc nwsngartty 2820  
 E--> 1836 ccngaycarw sntaygtngc nathgngcn wsnwsntggg tngaygaytt yathgaytgg 2880  
 E--> 1837 ytnacncncw snwsnwsntg ytgymgnytn tayathmgng gncncayaa rgaygartty 2940  
 E--> 1838 tgyccnwsna cngayacnws nttyaaytyt ytnaaraayt gyatgaaymg nacnytnngn 3000  
 E--> 1839 ccngtnmgnc cnacngcnga rcarttycay aartayytnc cntgggttyt naaygayccn 3060  
 E--> 1840 ccnaayathm gntgyccnaa rgnggnytn gcngcntaym gnacnwsngt naayytnwsn 3120  
 E--> 1841 wsngayggnc argtnathgc nwsncartty atggcntayc ayaarccnytn nmgnaaywsn 3180  
 E--> 1842 cargaytya cngargcnytn nmngcncwsn mgnytnytn cngcnaayat hacngcngay 3240  
 E--> 1843 ytnmgnaarg tncnggnac ngayccnaay ttygargnt tyccntayac nathwsnaay 3300  
 E--> 1844 gtnttytayc arcartayyt nacngtnytn ccngarggna thttyacnytn ngcnytnngy 3360  
 E--> 1845 ttygtncna cnttygtngt ntgytayytn ytnytnngny tngaytggtg ywsnggnath 3420  
 E--> 1846 ytnaayytny tnwsnathat hatgathytn gtngayacna thggnytnat ggngtntgg 3480  
 E--> 1847 ggnathwsnt ayaaygcngt nwsnytnath aayytngtna cngcngtngg natgwsngtn 3540  
 E--> 1848 garttygtnw snayathac nmgnwsntty gcngtnwsna cnaarccnac nmgnytngar 3600  
 E--> 1849 mgngcnaarg aygcnaacngt nttyatgggn wsngcngntt tygcngngnt ngcnatgacn 3660  
 E--> 1850 aaytyccng gnathytnat hytnggntty gcncargcnc arytnathca rathttyty 3720  
 E--> 1851 ttymgnytna ayytnytnat hacnytnytn ggnytnytn ayggnytngt nttytnccn 3780  
 E--> 1852 gtngtnytnw sntayytnng nccngaygt nccngargcn aaycargcny tngtncarga rgaraarytn 3840  
 E--> 1853 gcnwsngarg cngcngtngc nccngarccn wsntgyccnc artayccnws nccngcngay 3900  
 E--> 1854 gcngaygcna aygtnaayta yggnttygcn ccngarytn cncayggngc naaygcngcn 3960  
 E--> 1855 mgnwsnwsny tncncaarws ngaycaraar tty 3993

2558 &lt;210&gt; SEQ ID NO: 13

2559 &lt;211&gt; LENGTH: 3999

2560 &lt;212&gt; TYPE: DNA

2561 &lt;213&gt; ORGANISM: Mus sp.

2563 &lt;400&gt; SEQUENCE: 13

E--> 2564 atggcngcng cntggcargg ntggynytn tgggcnnytn tnytnaayws ngcncarggn 60

*see*  
*pp 5-6*

*same type of error as pp 1-2*

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Input Set : A:\seqlist.txt

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E--> 2565	garytntaya	cncnacnca	yaargcnggn	ttytgyacnt	tytaygarga	rtgyggnaar	120
E--> 2566	aayccngary	tnwsngngg	nytnacnwsn	ytnwsnaaya	thwsntgyyt	nwsnaayacn	180
E--> 2567	ccngcnmgnc	aygtnacngg	ngaycayytn	gcnytnytnc	armngntng	yccnmngnytn	240
E--> 2568	tayaayggnc	cnaaygayac	ntaygcntgy	tgywsnacna	arcarytngt	nwsnytngay	300
E--> 2569	wsnwsnytnw	snathacnaa	rgcnytnytn	acnmngtgyc	cngcntgyws	ngaraaytty	360
E--> 2570	gtwnsnathc	aytgycayaa	yacntgywsn	ccngaycarw	snytnntyat	haaygtnacn	420
E--> 2571	mgngtngtnc	armnggaycc	nggncarytn	ccngcngtng	tngcntayga	rgcnttytay	480
E--> 2572	carmgnwsnt	tygcngaraa	rgcntaygar	wsntgywsnm	gngtnmgnt	hccngcngcn	540
E--> 2573	gcnwsnytn	cngtnggnws	natgtgygg	gtntayggw	sngcnytn	yaaygcncar	600
E--> 2574	mgntggytna	ayttycargg	ngayaacngn	aayggnytn	cncnytn	yathacntty	660
E--> 2575	cayytnytng	arccnggnca	rgcnytn	gayggntga	arccnytn	yggnaarath	720
E--> 2576	acncntgya	aygarwsnca	rgnggargay	wsngcngcnt	gywsntgyca	rgaytgygcn	780
E--> 2577	gcnwsntgyc	cngtnathcc	nccnccnccn	gcnytnmgnc	cnwsnttyta	yatggngmgn	840
E--> 2578	atgcnggnt	ggytngcny	nathathath	tyacngcng	tnntygtnt	nytnwsngtn	900
E--> 2579	gtntngtnt	ayytnmgnt	ngcnwsnaay	mgnaayaara	ayaaracngc	nggnwsncar	960
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E--> 2581	ttygarwsnt	gggnacnm	ngtngcnwsn	tggccnytn	cngtnytngc	nytnwsntty	1080
E--> 2582	athgtngtna	thgcnytnws	ngtnggnytn	acnttyathg	arytnacnac	ngayccngtn	1140
E--> 2583	garytntggw	sngcnccnaa	rwsncargcn	mgnaargara	argcnttyca	ygaygarcay	1200
E--> 2584	ttyggncnt	tyttymgnac	naaycarath	ttygtnacng	cnaaraaymg	nwsnwsntay	1260
E--> 2585	aartaygayw	snytnytnyt	nggncncaar	aayttywng	gnathytnws	nytngayytn	1320
E--> 2586	ytnccargary	tnytngaryt	ncargarmgn	ytnmgncayy	tnccargtntg	gwsncaygar	1380
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E--> 2589	ytnytnytna	cngcnaayca	racnytnaay	ggncaracnw	snytngtnga	ytggaargay	1560
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E--> 2593	gcngaygayc	cnmgnatggc	ncaygcnaar	ytntgggarg	argcnttyyt	naargaratg	1800
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E--> 2596	ytnathgtnt	tyytnatayt	hwsnytn	ngcnytn	ytnngnwsnt	aywsnmngntg	1980
E--> 2597	gcngtngayw	snaargcnac	nytnngnytn	ggngngtng	cngtngtnt	nggngcngtn	2040
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E--> 2599	gtngtncnt	tyytngtnt	ngcngtngn	gcngayaaya	thttatht	ygtntngar	2160
E--> 2600	taycarmgny	tnccnmgnat	gccngngar	carmngarg	cncayathg	nmgnacnytn	2220
E--> 2601	ggnwsngtng	cncnwsnat	gytnytn	wsnytnwsng	argcnathg	ytytytytn	2280
E--> 2602	ggngcnytn	cnwsnatgcc	ngcngtnmgn	acnttygcny	tnacnwsngg	nytnngcnath	2340
E--> 2603	athttgyayt	tyytnytnca	ratgacngcn	ttygtngcny	tnytnwsnyt	ngaywsnaar	2400
E--> 2604	mgncargarg	cnwsnmgncc	ngaygtngtn	tgytgyttyw	snwsnmgnaa	yytnccnccn	2460
E--> 2605	ccnaarcara	argarggny	nytnytn	ttytytmgna	arathtayac	nccnttytn	2520
E--> 2606	ytnccaymgt	tyathmgnc	ngtngtnt	ytnytn	tngtntnt	yggngcnaay	2580
E--> 2607	ytnayytna	tgtgyaayat	hwsngtngn	ytnngaycarg	ayytnngcny	nccnaargay	2640
E--> 2608	wsntayytna	thgaytayt	yytnytn	aaymgtayy	tngargtngg	nccnccngtn	2700
E--> 2609	taytgyaya	cnacnwsngg	ntayaayty	wsnacngarg	cnggnatgaa	ygcnathtgy	2760
E--> 2610	wsnwsngcng	gntgygarws	nttywsnytn	acncaraara	thcartaygc	nwsngartty	2820
E--> 2611	ccnaaycarw	sntaygtngc	nathgngcn	wsnwsntggg	tngaygaytt	yathgaytgg	2880
E--> 2612	ytnacnccnw	snwsnwsntg	ytgymgnath	tayacnmng	gncncayaa	rgaygartty	2940
E--> 2613	tgyccnwsna	cngayacnws	nttyaayty	ytnaaraayt	gyatgaaymg	nacnytnngn	3000

*same  
error*

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Input Set : A:\seqlist.txt

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E--> 2614	ccngtnmgnc	cnacnacnga	rcarttycay	aartayytnc	cntgggttyt	naaygayacn	3060
E--> 2615	ccnaayathm	gntgyccnaa	rgnggnytn	gcngcntaym	gnacnwsngt	naayytwnsn	3120
E--> 2616	wsngayggnc	arathathgc	nwsncartty	atggcntayc	ayaarccnyt	nmgnaaywsn	3180
E--> 2617	cargayttya	cngargcnyt	nmgngcnwsn	mgnytnytng	cngcnaayat	hacngcngar	3240
E--> 2618	ytnmgnaarg	tnccnggnac	ngayccnaay	ttygargtnt	tyccntayac	nathwsnaay	3300
E--> 2619	gtnttytayc	arcartayyt	nacngtnyt	ccngarggna	thttyacnyt	ngcnytnygy	3360
E--> 2620	ttygtncna	cnttygtngt	ntgytayyt	ytntnggny	tngayathmg	nwsnggnath	3420
E--> 2621	ytnaayyt	tnwsnathat	hatgathytn	gtngayacna	thggnytnat	ggcngtntgg	3480
E--> 2622	ggcnathwsnt	ayaaygcngt	nwsnytnath	aayytngtna	cngcngtngg	natgwsngtn	3540
E--> 2623	garttygtnw	sncayathac	nmgnwsntty	gcngtnwsna	cnaarccnac	nmgnytngar	3600
E--> 2624	mgngcnaarg	aygcnacnat	httyatgggn	wsngcngtnt	tygcnggngt	ngcnatgacn	3660
E--> 2625	aayttyccng	gnathytnat	hytnggntty	gcncargcnc	arytnathca	rathttytty	3720
E--> 2626	ttymgnytna	ayytntnat	hacnytnyt	ggnytnytnc	ayggnytngt	nttyytnccn	3780
E--> 2627	gtngtnyt	ntayytngg	ncngaygt	aycargcny	tngtntnga	rgaraarytn	3840
E--> 2628	gcncngarg	cngcnatggt	nwsngarccn	wsntgyccnc	artayccntt	ycngcngay	3900
E--> 2629	gcnaayacnw	sngaytaygt	naaytaygg	ttyaayccng	arttyathcc	ngarathaay	3960
E--> 2630	gcngcnwsnw	snwsnytncc	naarwsngay	caraartty			3999

*same*

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/621,758

DATE: 07/30/2003  
TIME: 08:07:58

Input Set : A:\seqlist.txt  
Output Set: N:\CRF4\07302003\J621758.raw

Use of n's or Xaa's (NEW RULES): *error exploration*  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
in <220> to <223> section, please explain location of n or Xaa, and which  
residue n or Xaa represents.

Seq#:10; N Pos. 6,9,12,18,21,27,30,36,39,42,45,48,51,54,60,66,72,75,87,90  
Seq#:10; N Pos. 93,99,117,126,132,135,138,141,144,147,150,153,156,162,165  
Seq#:10; N Pos. 171,174,180,183,186,189,195,198,201,210,213,216,219,225,234  
Seq#:10; N Pos. 237,240,249,252,258,261,267,276,279,288,291,294,297,303,306  
Seq#:10; N Pos. 312,318,324,327,330,333,336,342,345,351,363,366,369,384,390  
Seq#:10; N Pos. 393,402,405,417,420,423,426,429,435,438,441,444,450,453,456  
Seq#:10; N Pos. 459,462,465,474,486,489,495,504,513,519,525,528,534,537,540  
Seq#:10; N Pos. 543,546,549,552,555,558,561,570,573,579,582,585,588,597,603  
Seq#:10; N Pos. 609,621,627,630,636,639,642,645,648,657,666,669,675,678,684  
Seq#:10; N Pos. 687,690,696,705,708,714,723,726,738,744,753,756,759,765,780  
Seq#:10; N Pos. 783,786,792,795,801,804,807,813,816,819,822,825,837,840,846  
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DATE: 07/30/2003

PATENT APPLICATION: US/10/621,758

TIME: 08:07:58

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**VERIFICATION SUMMARY**

DATE: 07/30/2003

PATENT APPLICATION: US/10/621,758

TIME: 08:07:58

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
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M:340 Repeated in SeqNo=13  
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